(Caption of Cas	UTH CAROLINA se) er's 2019 Meter San) npling Test Report))))))))))))	PUBLIC STORY OF SO	FORE THE ERVICE COMMOUTH CAROLINATE SHEET E: 2006 - 63 -	CE COMMISSION I CAROLINA SHEET 06 - 63 - E					
(Please type or print					VED	2019 April				
Submitted by:	Lockhart Power C		SC Bar Numl	ber:	28 5018					
Address:	P.O. Box 10		Telephone:	RE	18 Jula	_87				
NOTE: The cover sheet and information c as required by law. This form is required			Fax:	APR	acc sche	7:20				
			Other: Email:		MAIL	$\stackrel{-}{ gray}$				
Emergency R Other:		OCKETING INFOI			ly) n's Agenda expeditiously	SCPSC - 2006-63-E _F				
INDUSTRY (C	Check one)	NATURE OF ACTION (Check all that apply)								
		Affidavit	Letter		Request	<u> </u>				
☐ Electric/Gas		Agreement	Memoran	ndum	Request for Certificatio	n S				
☐ Electric/Telecommunications		Answer	☐ Motion		Request for Investigation					
☐ Electric/Water		Appellate Review	Objection	n	Resale Agreement					
Electric/Water/Telecom.		Application	Petition		Resale Amendment					
☐ Electric/Water/	Sewer	☐ Brief	Petition 1	for Reconsideration	Reservation Letter					
Gas		Certificate	Petition 1	for Rulemaking	Response					
Railroad		Comments	Petition fo	or Rule to Show Cause	Response to Discovery					
Sewer		Complaint	Petition 1	to Intervene	Return to Petition					
☐ Telecommunica	ations	Consent Order	Petition to	o Intervene Out of Time	Stipulation					
☐ Transportation		Discovery	Prefiled	Testimony	Subpoena					
Water		Exhibit	Promotio	on	☐ Tariff					
☐ Water/Sewer		Expedited Consideration	Proposed	d Order	Other:					
☐ Administrative	Matter	Interconnection Agreement	Protest							
Other:		Interconnection Amendmen	nt Publishe	r's Affidavit						
		Late-Filed Exhibit	Report							



April 3, 2019

The Honorable Jocelyn G. Boyd
Chief Clerk and Administrator
South Carolina Public Service Commission
101 Executive Center Drive
Suite 100
Columbia, South Carolina 29210

Docket No. 2006-63-E Order No. 2009-85

Dear Mrs. Boyd:

Pursuant to Docket No. 2006-63-E, Order No 2009-85 dated February 17, 2009 Lockhart Power Company is submitting the 2019 Meter Sampling Test Report. The results meet the acceptability criterion based on the Commission approved Meter Sampling Plan.

Sincerely,

James H. Seay, Jr.

Manager, Engineering & Regulatory Affairs

Lockhart Power Company

Lockhart Power Company Results from 2019 Statistical Sampling Program for Self-Contained Meters Statistical sampling and analysis were performed per the American National Standard ANSI/ASQ Z1.9-2003

Report Date:

3/27/2019

Description

Single Phase Elester Meters

Population

6,183

 Results
 2019 Results

 # Meters Tested:
 15

 Bar-X (Mean):
 100.1786667

 Standard Deviation:
 0.56

 Max. Allowable % nonconforming (M)
 4.32%

 Est. % nonconforming (Pu)
 0.00%

 Est. % nonconforming (Pl)
 0.00%

The lot meets acceptablity criterion since Pu is less than M :Upper limit 0%<4.32% The lot meets acceptablity criterion since PI is less than M: Lower limit 0%<4.32%

Lockhart Power Company

2019 Statistical Sampling Program for Self-Contained Meters

Statistical sampling and analysis were performed per the American National Standard ANSI/ASQ Z1.9-2003

Sampling Procedures for Inspection by Variables For Percent Nonconforming Variability Unknown Standard Deviation Method with Single Specification Limit

Meters	Test	Results
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X	X^2	Correction Factor	SS	Variance	SD	Xbar	U	L	Qu	QI	Pu	Pi	M
100	10000	150,536.48	4.40	0.31	0.56	100.18	102.00	98.00	3.25	3.89	0.00%	0.00%	4.32%
100.1	10020.01												
100.2	10040.04												
100.3	10060.09												
100.6	10120.36												
100.6	10120.36												
100.7	10140.49												
100.7	10140.49												
100.8	10160.64		The lo	t meets acc	eptablity	/ criterion	since Pu i	is less th	an M :U	pper lim	it 0%<4.:	32%	
100.8	10160.64		The lot meets acceptablity criterion since PI is less than M: Lower limit 0%<4.32%										
99.9	9980.01				•								
99.9	9980.01		Analysis is based on the followng assumption:										
99.7	9940.09		Level 1	Inspection		,							
99.6	9920.16		AQL =	1%									
<u>98.78</u>	<u>9757.4884</u>		Form 2										
1,502.68	150,540.88		Reduce	d Inspection									



Lockhart Power Company

Meter Sampling Plan for Single-Phase Watt-Hour Meters

- The procedure for the sampling plan will be Variability Unknown-Standard Deviation Method for a Single Specification Limit. An Inspection Level I, reduced inspection, with AQL=1% is to be used. This is based on the ANSI standard Z1.9-2003.
- 2. Samples of self-contained, single-phase watt-hour meters shall be tested on an annual basis. The samples will be drawn from the entire population of the same meter type.
- 3. The sampling rate (K) shall be computed by dividing the total number of meters (N) by the number in the sample (n). Thus K= N/n. The sample (n) shall be drawn from the meter history records by first selecting, from tables of random numbers, a random number between 1 and K, then drawing the meter which occupies this position, and then drawing every Kth meter thereafter.
- 4. The number of meters in each sample shall be selected annually by the company consistent with criteria established in the ANSI standard Z1.9-2003. If the group fails to meet the criteria in ANSI standard Z1.9-2003 then a new sample will be drawn for normal inspection and tested separate from the sample that failed. If this sample fails then the entire group will be recalibrated at a minimum rate of 5% per year until all of the meters in that group have been recalibrated or until succeeding annual samples show that the performance criteria have been met. Meters to be recalibrated shall be selected on the basis of the longest time since last test. Meters so tested and placed into service shall be sampled as a separate group from the remainder of the original group not tested. When the sample results of the remainder of the original group indicate that the group meets the performance criteria, the components of the group may be consolidated for subsequent sampling.
- A report shall be made annually to the South Carolina Public Service Commission and Office of Regulatory Staff showing results and any action taken.